

November 3, 2006

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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

pplication No.:

10/830,041

Filing Date:

April 23, 2004

Applicant:

Joong-Chul Yoon et al.

Group Art Unit:

2124

Examiner:

Unknown

Title:

MONTGOMERY MODULAR MULTIPLIER AND

METHOD THEROF USING CARRY SAVE ADDITION

Attorney Docket:

8947-000063/US/CPA

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314 Mail Stop Amendment

### **INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

## I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form PTO-1449 attached hereto.

#### II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) for each cited pending unpublished U.S. application listed below in Section IV, the application specification including the claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form PTO-1449 or on the copies of Form PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

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# U.S. Application No. 10/830,041 Attorney Docket No. 8947-000063/US/CPA Page 2 of 5

# U.S. Serial Number

# U.S. Filing Date

	C. Because the present application of the U.S. patents or U.S. patent attached Form PTO-1449 are es § 1.98(a)(2)(i). Any foreign paten attached Form PTO-1449 are enclosed	application publications which application pursuant to the wast documents or non-patent literature.	ch are listed on the iver of 37 C.F.R.				
	D. This is a PCT application in the A copy of the International Search. The documents listed on the International PTO-1449 for consideration by the from this application. Since the International JPO search authorities, copies of the USPTO under the trilateral agree above-identified application. (MPE)	Report is attached for the Examinal Search Report are listed of Examiner and for listing on ernational Search Report was fishese references should have be ment and are believed to be	miner's information. on the attached Form any patent resulting rom the US, EPO, or been supplied to the				
III.	CONCISE EXPLANATION OF TH	HE RELEVANCE (check at lea	ast one box)				
	A.  Except as may be indicated below in (B), all of the patents, publications or othe information are in the English language (concise explanation not required).						
	B. A concise explanation of the information listed that is not in the § 1.98(a)(3)):						
	<ol> <li>See the attached foreign application:</li> <li>English translations are</li> <li>Other:</li> </ol>	gn patent office communications	n from a counterpart				
	C. Mr The following additional consideration. European Sea	information is provided a arch report dated September 15					
IV.	CROSS REFERENCE TO RELAT	ED APPLICATION(S)					
	A. The Examiner is advised that the following co-pending application(s) cosubject matter that may be related to the present application. By bringing the application(s) to the Examiner's attention, Applicant(s) does(do) not we confidentiality provisions of 35 U.S.C. § 122.						
	Serial No.	Filing Date	Art Unit				

# V. THIS IDS IS BEING FILED UNDER

A. 🔀	37 C.F.R. § 1.97(b): (check <u>only</u> one box)		
	1. within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.		
	2.  within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.		
	3. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).		
	4.  before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.		
B. 37 C.F.R. § 1.97(c): (check only one box)			
	⊠ before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.		
	1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).		
	2. See the certification below. No fee is required.		
C. 37 C.F.R. § 1.97(d):			
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.		
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).		

# VI. <u>CERTIFICATION UNDER 37 C.F.R. § 1.97(e):</u> (check <u>only</u> one box) The undersigned hereby certifies that: A. A each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. § 1.704(d) below in section VII, if applicable; or B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 C.F.R. § 1.704(d) The undersigned hereby states that: each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. VIII. PAYMENT OF FEES (check only one box) A. No fee is believed to be due in light of the above-noted status or above-provided certification. B. A check in the amount of \$180.00 is enclosed for the above-identified fee. C. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the

above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. §§ 1.16 or 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY, & PIERCE, P.L.C.

By:

John A. Castellano, Reg. No. 35,094

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Reston Virginia 20195

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JAC/JRS/aeh ∂€5

Enclosures:

Form PTO-1449(s) (1 sheet(s))

Documents |

European Search Report dated September 15, 2006

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FORM HDP-1449 (Based on Form PTO-1449)  PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					ATTORNEY DOCKET NO. 8947-000063/US/CPA		SERIAL NO. 10/830,041				
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		US 2002/0172355 A1			Lu et al.		Á	pril 4, 200	01		
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OTHER	R DOCUMENTS	S (including Author, Titl	e, Date, Pertinen	t Pages, etc	;.) 						
Ref. Desig.	Examiner's Initials										
		Wang, P. A. et al: "New VLSI Architectures Of RSA Public-Key Cryptosystem" June 9, 1997 Vol. 3 pages 2040-2043									
		Behrooz, Parhami: "High-Radix Multipliers" Computer Arithmetic: Algorithms And Hardware Desig 2000, page 159, paragraph 10.2-161, figure 10.6									
		Tenca, A. F. et al: "High-radix Design of A Scalable Modular Multiplier" cryptographic Hardware and Embedded Systems, 3 <sup>rd</sup> International Workshop, May 14, 2001 Vol. 2162, pages 185-201									
		Post, Katharina: European Search Report dated September 15, 2006									
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Date Considered:

Examiner: